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Obituary

Rowland M. Shelley (1942-2018)



Rowland M. Shelley, with specimen
 of *Scolopendra gigantea* Linnaeus, 1758.

Dr. Rowland M. Shelley, former Curator of Invertebrates at the North Carolina Museum of Natural Sciences and internationally renowned authority on millipedes (Class Diplopoda) died on November 11, 2018, in Raleigh, North Carolina. The cause of his death was pneumonia, following surgery for a knee replacement. Survivors include his wife of 38 years Lourdes O. Shelley, son Stephen (Theresa), stepson Demian Hardister (Lisa), three grandchildren, and a sister.

Dr. Shelley was born in Raleigh on September 9, 1942, and was a graduate of Broughton High School (1960), The University of North Carolina (BS, 1964), and North Carolina State University (PhD in physiology, 1970). He was employed by the North Carolina Museum of Natural Sciences for 44 years, until his retirement in 2015. In March 2013, the museum hosted a symposium in his honor on non-insect terrestrial invertebrates in the southeastern United States. Even after retiring, Dr. Shelley continued to work from a home laboratory and to publish significant scientific papers. He was a research associate in the Department of Entomology at the University of Tennessee, the Virginia Museum of Natural History, and the Florida State Collection of Arthropods, and an Adjunct Associate Professor of Zoology at North Carolina State University.

Dr. Shelley published more than 300 papers (some

forthcoming posthumously) on the systematics and biogeography of millipedes, centipedes, scorpions, and several other taxa. His early field work in North Carolina included surveys for freshwater mussels. His research was supported by the National Science Foundation, the National Geographic Society, and the Smithsonian Institution, among others. Among his important achievements were a monograph on the scolopendromorph centipedes of North America, a revision and biogeographical treatise on the xystodesmid millipede genus *Sigmoria*, and a world-wide survey (with colleague Sergei Golovatch) of the distribution of millipede orders. A few months prior to his death, he published a revised classification of the important millipede family Xystodesmidae that included numerous innovations. He was a diligent and dedicated field worker and travelled over much of the North American continent in search of materials for his research, as well as visiting virtually every museum in the United States and Canada with a significant millipede collection; in many cases he reorganized the collections he found.

Dr. Shelley was the author of one millipede family (Hoffmanobolidae Shelley, 2001), two subfamilies, 11 tribes and subtribes, 38 genera, and 210 species. The millipede genus *Shelleyomorpha* Golovatch, 1997 was named for him, as were four millipede species, one opilionid, and one nematode. Among the species Dr. Shelley described is *Sigmoria whiteheadi*, one of only two millipedes with protected status in Virginia (listed as state threatened by the Virginia Department of Game and Inland Fisheries). He also maintained a website on myriapods (<http://www.nadiplochilo.com/>; also available at <https://ag.tennessee.edu/EPP/Pages/Nadiplochilo/Nadiplochilo.aspx>).

On a personal level, Dr. Shelley and his wife Lourdes enjoyed travel, particularly if it involved trains. Their international travel encompassed 50 countries and included attendance at numerous international myriapod



Lourdes and Rowland Shelley at Iguazú Falls (Argentina-Brazil border).

congresses. He had become an avid golfer in recent years.

Dr. Shelley's connections with Virginia were strong, and he regarded the late Richard L. Hoffman, formerly Curator of Recent Invertebrates at the Virginia Museum of Natural History, as his mentor. His works on millipedes often involved specimens from Virginia. Below is a short list of some of his publications with relevance to Virginia.

- Shelley, R. M. 1976. Millipeds of the *Sigmoria lator* complex (Polydesmida: Xystodesmidae). Proceedings of the Biological Society of Washington 89: 17–38.
- Shelley, R. M. 1979. A synopsis of the milliped genus *Cambala*, with a description of *C. minor* Bollman (Spirostreptida: Cambalidae). Proceedings of the Biological Society of Washington 92: 551–571.
- Shelley, R. M. 1979. The status of *Sigmoria gracilipes* Chamberlin, with remarks on the milliped genus *Brachoria* (Polydesmida: Xystodesmidae). Florida Entomologist 62: 220–223.
- Shelley, R. M. 1980. Revision of the milliped genus *Pleuroloma* (Polydesmida: Xystodesmidae). Canadian Journal of Zoology 58: 129–168.
- Shelley, R. M. 1981. Revision of the milliped genus *Sigmoria* (Polydesmida: Xystodesmidae). Memoirs of the American Entomological Society No. 33. 141 pp.
- Shelley, R. M. 1984. A synopsis of the milliped genus *Abacion* Rafinesque (Callipodida: Caspiopetalidae). Canadian Journal of Zoology 62: 980–988.
- Shelley, R. M., & D. R. Whitehead. 1986. A reconsideration of the milliped genus *Sigmoria*, with a revision of *Deltotaria*, and an analysis of the genera in the tribe Apheloriini (Polydesmida: Xystodesmidae). Memoirs of the American Entomological Society No. 35. 223 pp.
- Shelley, R. M. 1987. Unionid mollusks from the upper Cape Fear River basin, North Carolina, with a comparison of the faunas of the Neuse, Tar, and Cape Fear drainages (Bivalvia: Unionacea). Brimleyana 13: 67–89.
- Shelley, R. M. 1990. Occurrence of the milliped *Auturus erythrogygos erythrogygos* in Virginia (Polydesmida: Platyrrhacidae). Brimleyana 16: 61–62.
- Shelley, R. M. 1990. A naturalist at Appomattox. The Virginia Explorer 6: 9.
- Whitehead, D. R., & R. M. Shelley. 1992. Mimicry among aposematic Appalachian xystodesmid millipeds (Polydesmida). Proceedings of the Entomological Society of Washington 94: 177–188.
- Shelley, R. M. 1993. Revision of the milliped genus *Scytonotus* Koch (Polydesmida: Polydesmidae). Brimleyana 19: 1–60.
- Shelley, R. M. 1994. Distribution of the scorpion, *Vaejovis carolinianus* (Beauvois), a reevaluation. Brimleyana 21: 57–68.
- Shelley, R. M. 1995. The milliped family Hirudisomatidae in the New World (Polyzoniida). Brimleyana 23: 103–143.
- Shelley, R. M. 1998. The milliped family Polyzoniidae in North America, with a classification of the global fauna (Polyzoniida). Arthropoda Selecta 6(3/4): 3–34.
- Shelley, R. M. 1999. Centipedes and millipedes with emphasis on North American fauna. Kansas School Naturalist 45(3): 1–15.
- Shelley, R. M. 2000. Parajulid Studies II. The subgenus *Hakiulus* Chamberlin (Julida: Parajulidae: Parajulinae: Aniulini). Myriapodologica 6: 121–145.
- Shelley, R. M. 2001. A synopsis of the milliped genus *Aniulus* Chamberlin (Julida: Parajulidae: Parajulinae: Aniulini). Texas Memorial Museum, Speleological Monographs 5: 73–94.
- Shelley, R. M. 2002. A synopsis of the North American centipedes of the order Scolopendromorpha (Chilopoda). Memoir of the Virginia Museum of Natural History 5: 1–108.
- Shear, W. A., & R. M. Shelley. 2004. Introduction of the milliped *Cleidogona nantahala* Shear, 1972, in New England (Chordeumatida: Cleidogonidae). Entomological News 115(2): 88–94.
- McAllister, C. T., R. M. Shelley, H. Enghoff, & Z. D. Ramsey. 2005. Distribution of the milliped *Virgoiulus minutus* (Brandt, 1841) (Julida: Blaniulidae). Western North American Naturalist 65(2): 258–266.
- Shelley, R. M., C. T. McAllister, & T. Tanabe. 2005. A synopsis of the milliped genus *Brachycybe* Wood, 1864 (Platydesmida: Andrognathidae). Fragmenta Faunistica 48(2): 137–166.

Shelley, R. M. 2008. Revision of the centipede genus *Hemiscolopendra* Kraepelin, 1903: Description of *H. marginata* (Say, 1821) and possible misidentifications as *Scolopendra* spp.; proposal of *Akymnopellis*, n. gen., and redescriptions of its South American components (Scolopendromorpha: Scolopendridae: Scolopendrinae). *International Journal of Myriapodology* 2: 171–204.

Shelley, R. M., C. T. McAllister, C. M. Nagy, M. E. Weckel, R. G. Christie, & P. A. Wilson. 2011. Distribution of the American milliped genus *Boraria* Chamberlin, 1943: Introductions of *B. stricta* (Brölemann, 1896) in New York and *B. infesta* (Chamberlin, 1918) in Connecticut; indigenous occurrence of *B. profuga* (Causey, 1955) in Louisiana (Diplopoda: Polydesmida: Xystodesmidae). *Insecta Mundi* 0194: 1–8.

Shelley, R. M. 2013. Richard Lawrence Hoffman (1927–2012): A Tribute to a Friend, Colleague, Teacher, Mentor, and GRAND MASTER EXTRAORDINAIRE of Diplopodology. *Bulletin du Centre International de Myriapodologie* 46: 15–18.

Shelley, R. M. 2013. Rectifying the inequity and bias: The case for investigating non-insect terrestrial invertebrates in the southeastern United States. *Banisteria* 41: 101–107.

Hennen, D. A., & R. M. Shelley. 2015. A contribution on the milliped tribe Nannariini (Polydesmida: Xystodesmidae): Revalidation of *Mimuloria* Chamberlin 1928; identities of *Fontaria oblonga* CL Koch 1847, and *Nannaria minor* Chamb. 1918; elucidation of the tribal range; and commentaries on *Nannaria* Chamb. 1918 and *Oenomaea* Hoffman 1964. *Insecta Mundi* 0418: 1–21.

Shelley, R. M., & J. M. Smith. 2016. Parajulid milliped studies XII: Initial assessment of *Ptyoiulus* Cook 1895 and neotype designations for *Julus impressus* Say 1821 and *J. montanus* Cope 1869 (Diplopoda: Julida). *Insecta Mundi* 0522: 1–21.

Shelley, R. M., G. Phillips, & J. M. Smith. 2017. A contribution on the neglected milliped genus *Apheloria* Chamberlin 1921 (Diplopoda: Polydesmida: Xystodesmidae/-inae: Apheloriini): Neotype designation and description of *Julus virginianensis* Drury 1770. *Insecta Mundi* 0571: 1–12.

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Reports

1. Minutes from the Virginia Natural History Society Executive Committee Meeting, December 1, 2018, University of Lynchburg, Schewel Hall, room 229

In attendance: Nancy Moncrief, Steve Roble, Ralph Eckerlin, Chris Milensky, Kal Ivanov, Karen Powers, Paul Marek, Michael Lachance

Absent: Al Gardner, Rachel Goodman, Todd Fredericksen

The meeting was called to order by Vice President Moncrief at 12:06 PM.

Topics:

Membership Report (Nancy Moncrief): Nancy received the membership list from Rachel. Nancy expressed uncertainty whether to delete names of members who don't renew. She hasn't sent reminder notices to those who haven't renewed. Steve Roble: stated that there are currently 68 members and 14 institutions in the membership. Nancy: discussed renewal notices and questioned if an online method would be efficient and easier. Nancy and Steve: discussed the issue of *Banisteria* synchrony with membership renewal; specifically, the question arose whether members who renew after the year's issue of *Banisteria* is shipped to members will receive the entire year including all issues, or just those issues remaining since their renewal date. Nancy: will send an email reminder to all members reminding them to renew. Nancy made a comment that the roll-over to VMNH Foundation from Hampden-Sydney should be a phased transfer and might be best to occur in more than one payment since members might renew with the old HSC address. Steve: made a comment that free student membership offer should be readvertised.

Treasurer Report (Nancy): The statement as of 31 July 2018 shows that the account has a balance of \$17,830. Steve: The statement as of 1 November 2018 shows that the account has a balance of \$17,945. Steve: Membership has decreased over time from a high of ca. 165, and is now at ca. 80 people. Steve: A couple of libraries that typically renew each year, Duke University and Christopher Newport University, have not renewed this year (but they may be accessing *Banisteria* via a subscription to EBSCO).

Newsletter and Webmaster Report (Marek): Marek: requests short bios for new Executive Committee

Members to include in the newsletter including Dr. Karen Powers and newly elected councilors (pending the results of the upcoming election). These bios were given to Paul in paper form by Roble during the meeting. Marek: will highlight the member meeting that took place at VMNH and include photos on the VNHS website. Ivanov: mentioned that he will send Marek some photos that he took during the meeting. Marek: provided the Executive Committee the results of an online poll to members asking to rank their interests in society activities. Out of 19 participants, 4 chose "bioblitz", 4 chose "field trip", 3 chose "workshop", 4 chose "picnic", 1 chose "camping", and 3 chose "conference (posters, talks)". Powers: commented that a taxidermy or specimen preparation (pinning, spreading, etc.) workshop would be an option. Other comments for Society activities included mini-grants (Marek's recommendation) and contributions to the International Code of Zoological Nomenclature (Eckerlin's recommendation). Marek: stated that he will add the following to VNHS website: history of the Society (Roble will provide), password protected storehouse for Society documents.

Nomination of Officers: Secretary-Treasurer Rachel Goodman's term expires in December 2020, but she has asked to have it expire once the by-laws have been updated, thereby splitting the Secretary-Treasurer positions into two. Marek is currently serving as Secretary-Webmaster, and Treasurer duties have been planned to be transitioned to the VMNH. A motion was proposed and Nancy Moncrief and Kal Ivanov were nominated as co-Treasurers. Six members voted in favor, 0 voted against, and 0 abstained.

Editor Report (Roble): *Banisteria* #50 was submitted to the printer on November 12 and will be mailed in early December. *Banisteria* #51 is to be published in February 2019. *Banisteria* #52 will be the last issue for Roble (target publication date June 2019). Todd Fredericksen will take over as editor for *Banisteria* #53. Steve Roble will train and assist Fredericksen in the transition.

New business:

Transition of Editor duties from Roble to Fredericksen (Roble): Roble: has assisted Biodiversity Heritage Library with serving *Banisteria* through their website as a free resource available to all. Much of the journal is now available through BHL, and the new editor will continue to send new issues to be posted at their website. After *Banisteria* #52, the journal distribution will be transferred to VMNH.

Review of Memorandum of Understanding between VNHS and VMNH Foundation. The VMNH auditors wanted to make sure that the VNHS paid some random state fee. VMNH Foundation will be paid \$250 per year for financial services. The MOU between VNHS and VMNH Foundation will be a 3-year agreement, which can be renewed. A motion was proposed to approve the MOU between VNHS and VMNH. Eight members voted in favor of the MOU between VNHS and VMNH, 0 voted against, 0 abstained.

Revision of the VNHS bylaws: A motion was proposed to split the Secretary-Treasurer duties, and allow for concurrent councilor terms. Marek will edit the VNHS Bylaws, so that the Secretary is a separate office from the Treasurer. Marek will send edited Bylaws with these Minutes to the Executive Committee for review.

Web hosting service and VNHS domain name service. The web hosting and domain name service is paid until 2019. It was proposed that for the next year, the VNHS web hosting and VNHS domain name service be paid directly by the VNHS Treasury. Ivanov and Moncrief responded that it would be possible to pay this fee directly through the VMNH-VNHS MOU. Marek: will explore possibilities to host the VNHS website through Virginia Tech's hosting service, with the caveat of making sure the university would not cut the service without notification (as had happened in the past).

Online repository of all the digital files including membership list will be placed on VNHS or Google Drive/Docs/Spreadsheets. Moncrief: stated that the VMNH rules prevent sharing these documents through their Google Documents service. Powers: mentioned that she would look into Radford University's Google Documents as a place to store and share these documents.

Online payment of dues: Moncrief mentioned that this can occur in the same way as the VNHS Member Meeting payment through the VMNH store.

Electronic only format of *Banisteria*: Marek proposed a motion to make *Banisteria* #53 electronic-only, which was seconded by Powers. Discussion ensued regarding logistical issues of retaining paper copies of *Banisteria*. Paper copies must be printed and mailed and entails additional steps which would be obviated by electronic-only *Banisteria*. The printing and mailing process is currently managed by Roble and Goodman, respectively, and will be transferred to Fredericksen who expressed concern about logistical issues with mailing issues of *Banisteria*. There was general agreement that paper

copies were nice, but perhaps not worth the logistical challenges (e.g., stuffing envelopes). Marek commented that electronic-only publication of *Banisteria*, which could include rolling publication of articles, would make submission of manuscripts even more appealing because of visibility, rapid publication, and higher probability of citations. Marek amended the motion to make *Banisteria*, starting with #53, electronic-only with the option to receive a paper copy. Five members voted in favor of the electronic-only format, 2 voted against, and one abstained.

Date and location of 2019 VNHS Conference: Moncrief mentioned that it could occur again at VMNH. Marek will announce in the newsletter that another symposium is planned for the Fall 2019 and the exact date is TBD. Roble and Powers recommended paying all student presenters an honorarium for presenting a paper, and waive the cost of registration.

Location and date of next Executive Committee Meeting: Moncrief stated that the next meeting of the Executive Committee Meeting might occur southwest of Lynchburg and would be optimal if it was held at Ferrum or VMNH. The first Saturday in December still seems to be a good date with the present members of the Executive Committee.

The meeting was adjourned at 3:40 PM.

Respectfully submitted,
Paul E. Marek, Secretary and Webmaster

2. Editor's Report

I apologize for the tardiness of this issue, which is half a year late. I am actively working on the first issue (#52) of *Banisteria* for 2019, which will be my 38th and final issue as journal editor. Todd Fredericksen, a past president of VNHS, has graciously agreed to serve as the next editor. Effective immediately, please send your submissions (preferably as email attachments) for publication in *Banisteria* to him at the following address:

Todd Fredericksen
Ferrum College
212 Garber Hall
Ferrum, VA 24088
tfedericksen@ferrum.edu

Respectfully submitted,
Steve Roble
Editor, *Banisteria*

Announcements

1. Dues renewal notice

A 2019 membership renewal form is enclosed with this issue of *Banisteria*. Please renew your membership promptly by returning the form and a check to Co-Treasurer Dr. Nancy Moncrief of the Virginia Museum of Natural History (VMNH). Alternatively, a new payment option for VNHS dues has been established on the VMNH online store at this address:

www.vmnh.store/store/p22/virginia-natural-history-society-membership

You can also access the payment page via a link from the Membership page on the VNHS website: <http://virginianaturalhistorysociety.com/>

If you desire a printed (vs. electronic format) copy of *Banisteria* #53 (second issue for 2019), you must check the appropriate box on the renewal form. All members will receive a printed copy of *Banisteria* #52 (first issue for 2019). Beginning in 2020 with *Banisteria* #54, the journal will only be distributed in electronic format.

All members are encouraged to attempt to recruit at least one new member to our society. Faculty members may nominate up to 3 students for a free one-year membership in the society following the guidelines presented in the **Student Membership Incentive** on the following page.

2. Election results for 2019

Kal Ivanov, who had served as a councilor for the past two years, was elected Vice President, and Art Evans and Curt Harden were elected to 4-year terms as councilors. We thank Chris Milensky for his service as a councilor during the past 4 years and Al Gardner for serving as President during 2017-18.

3. Virginia Natural History Society members meeting on November 2, 2019

The second general meeting of the Virginia Natural History Society will be held on Saturday, November 2, 2019 at the Virginia Museum of Natural History in Martinsville. Like last year, Nancy Moncrief and Kal Ivanov are the co-organizers and co-hosts. This one-day event is open to everyone, so please "save the date," spread the word, and plan to join us.

More details will be provided in the next issue of *Banisteria*, on the VNHS website, and via an email message to current members of the society.

4. News of members – Alfred L. Gardner, Ph.D., former Vice President and President of the Virginia Natural History Society, retires after over 45 years as Curator of North American Mammals in the Division of Mammals, National Museum of Natural History, Smithsonian Institution.

Effective October 4, 2018, Dr. Gardner retired from the US Geological Survey, Patuxent Wildlife Research Center's Biological Survey Unit (BSU) stationed at the National Museum of Natural History (USNM). In 1973, following a brief career as a University assistant professor, first at his Ph.D. Alma Mater Louisiana State University, Baton Rouge, and then at Tulane University, New Orleans, Gardner joined the US Fish and Wildlife Service (USFWS) Bird and Mammal Laboratory, stationed in the USNM. The impetus for retirement was the decision by the USGS–PWRC to close the Biological Survey Unit and discontinue research on the systematics and nomenclature of non-fish vertebrates as well as primary curatorial responsibility for North American mammals, birds, reptiles, and amphibians in the USNM. These collections consist primarily of voucher specimens amassed by the Biological Survey during its inventory of the North American fauna in the late 19th and early 20th Century. The Biological Survey Unit was the oldest affiliated agency stationed in the USNM and dated from 1889. The BSU, whose name has changed several times, began as the Section on Geographical Distribution of Species, one of three primary functions of the organization headed by C. Hart Merriam that became the US Bureau of Biological Survey, which in 1940, became the US Fish and Wildlife Service. Research personnel were reassigned from the USFWS to the US National Biological Service in 1993, and in 1996, again reassigned to the US Geological Survey.

Gardner's research includes taxonomy, morphology, genetics, distribution, food habits, life history, and nomenclature of mammals of the Western Hemisphere. His research, based on a synthesis of fieldwork and the study of specimens in museum collections combined with published information, particularly the earlier literature from the late 18th through early 20th centuries, has resulted in over 160 publications. Gardner has received several awards during his career: Western Foundation of Vertebrate Zoology, elected Patron, 1968; Sociedad Mexicana de Historia Natural, elected Numerario, 1968; National Museum of Natural History, Research Associate, 1974 to present; US Fish and Wildlife Service, Special Achievement Award, 1977, 1980, 1985, 1987, and 1991; Denver Wildlife Research Center Award for Outstanding Publication, 1982 and 1987; American Association for the Advancement of

Science, elected Fellow, 1991; National Biological Service, Special Achievement Award, 1994; American Society of Mammalogists Jackson Award, 2006; USGS-PWRC Special Achievement Award, 2009 and 2016; American Society of Mammalogists, Honorary Member, 2010; U.S. Department of the Interior Distinguished Service Award, 2014; Asociación Mexicana de Mastozoología, Ticol Álvarez-Solorzano Award, 2018.

He has also received several patronymic honors (one genus, seven species, and one subspecies): *Gardnerycteris* Hurtado and Pacheco, 2014; *Myotis oxyotus gardneri* LaVal, 1973; *Cummingsia (Acanthomenopon) gardneri* Price and Emerson, 1986; *Sciurodendrium gardneri* Guerrero, 1994; *Proechimys gardneri* da Silva and Patton, 1996; *Rhipidomys gardneri* Patton, da Silva, and Malcolm, 1999; *Molinema algardneri* Guerrero and Bain, 2001; *Monodelphis gardneri* Solari, Pacheco, Vivar, and Emmons, 2012; *Peromyscus gardneri* Lorenzo, Álvarez-Castañeda, Pérez-Consuegra, and Patton, 2016.

5. Recent publications of regional interest

Seabrooke Leckie & David Beadle. 2018. Peterson Field Guide to Moths of Southeastern North America. Houghton Mifflin Harcourt, Boston and New York. 652 pp. \$29.00 (paperback).

This comprehensive field guide includes more than 2,300 digitally manipulated color photos of 1,800 common species of moths and is a companion to the Northeastern guide by the same authors. It includes tips on how to find and attract moths, as well as range maps and flight season graphs.

Student Member Incentive

The Virginia Natural History Society is offering **free one-year memberships** for students (high school, undergraduate, or graduate) nominated by an advisor/teacher/mentor who is a member in good standing of the Society. This offer is available for up to 20 students each year, and nominations will be considered in the order in which they are received.

Nominators should include the following information for up to three students: name, institution, enrollment level, mailing address, e-mail address, and a short paragraph describing the student's interests in and activities related to Virginia natural history. Nominations should be sent to the Chair of the membership committee, Nancy Moncrief at nancy.moncrief@vnmh.virginia.gov.

Virginia Natural History Society

<http://virginianaturalhistorysociety.com/>

General Information

The Virginia Natural History Society (VNHS) was formed in 1992 to bring together persons interested in the natural history of the Commonwealth of Virginia. The VNHS defines natural history in a broad sense, from the study of plants, animals, and other organisms to the geology and ecology of the state, to the natural history of the native people who inhabit it. The goals of the VNHS are to promote research on the natural history of Virginia, educate the citizens of the Commonwealth on natural history topics, and to encourage the conservation of natural resources.

Dissemination of natural history information occurs through publication of the journal *Banisteria*, named for John Banister (1650-1692) who was the first university-trained naturalist to work in Virginia. The first issue was published in 1992, and the journal is published twice per year in spring and fall. Articles cover a wide array of subjects, and prospective authors are encouraged to submit manuscripts on any aspect of natural history in Virginia; papers may pertain to Virginia or regional archaeology, anthropology, botany, ecology, zoology, paleontology, geology, geography, or climatology. Book reviews, biographies, obituaries, and historical accounts of relevance to natural history in Virginia also are welcomed. Manuscripts are peer-reviewed for suitability and edited for inclusion in the journal.

Page charges (\$20/page) are waived if the sole or first author is a VNHS member. All authors must pay \$75/page if they desire color printing of figures. The society's website contains detailed instructions for prospective authors and PDF reprints of all *Banisteria* articles that are at least one year old.

Memberships

The VNHS is open to anyone with an interest in natural history and welcomes participation by all members in society activities and efforts to promote education and conservation. Membership includes a subscription to *Banisteria* and invitations to periodic symposia and field events. Annual dues for members are \$20 (per calendar year); library subscriptions are \$40 per year. Checks or money orders should be sent to the Secretary/Treasurer, who also has most back issues of *Banisteria* available for sale. The VNHS is a tax-exempt, nonprofit, society under Section 501(C)3 of the IRS. We welcome donations to support our mission in Virginia.

Virginia Natural History Society

Application for Membership

Name _____

Address _____

Zip Code _____

Phone _____

Email _____

Area(s) of Interest _____

ANNUAL DUES AND SUBSCRIPTIONS TO BANISTERIA

(memberships and subscriptions are by calendar year; subscribers/members outside the United States should add \$3.00 for additional postage)

- \$500.00 Life (not annual)
- \$300.00 Benefactor
- \$100.00 Patron
- \$50.00 Supporting
- \$40.00 Institutional
- \$25.00 Family
- \$20.00 Regular
- \$5.00 Student (see below)
- I have added a contribution of \$ _____
to my membership dues.

The special student rate is applicable only when accompanied by the following certification signed by a faculty advisor (**students are also eligible for a 1-year free membership** if an advisor's nomination is approved by the society's Executive Committee; see nomination guidelines in *Banisteria*).

Institution _____

Advisor _____

Date _____

Make checks or money orders payable to:
Virginia Natural History Society

Send membership form and dues to:
Dr. Nancy Moncrief, VNHS Treasurer
Virginia Museum of Natural History
21 Starling Avenue
Martinsville, VA 24112